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TRANSMITTAL	Filing Date	+				
FORM	First Named Inventor		November 8, 2001  Jonathan R. Coppeta  1765			
PORM	Art Unit					
	Examiner Name	<del></del>	<u> </u>		CENTRAL FAX GENTE	
(to be used for all correspondence after initial filing)	Attorney Docket Number	Ahmed, Shamim			MAPA	
Total Number of Pages in This Submission 3	Attorney Docket Number	1099us			1900	
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Houston Eiseeva LLP	<u> </u>					
Printed name	<u> </u>					
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Date March 9, 2006		Reg. No.	35,90	0		
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MAR 0 9 2006

In Re:

Jonathan R. Coppeta

Confirmation No:

2283

Application No:

10/007,502

Group:

1765

Filed:

November 8, 2001

Examiner:

Ahmed, Shamim

For:

No.

Method for Fabricating Micro

Optical Elements Using CMP

Customer No.:

25263

Attorney Docket

1099us

## REPLY BRIEF UNDER RULE 1.93(b)(1)

VIA FACSIMILE: 571-273-8300 Mail Stop Appeal Brief Patents Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

This is the Applicants'-Appellants' Reply to the Examiner's Answer of January 9, 2006.

The following summarizes issues that were presented in the Appellant's Brief and unanswered in the Examiner's Answer.

## Relative to Claim 1

It is Applicant's contention that the references do not suggest 'mechanically polishing a surface to modify features to produce optically curved surfaces'.

Kane shows the use of chemical polishing to product curved surfaces.

The Answer at page 4, first full paragraph, points to the following portion of Hawkins for the proposition that the references suggest the claimed invention:

March 9, 2006

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> tive index higher than that of the dielectric layer 100. The lens material 130 is preferably chosen from the group silicon 20 nitride, titanium oxide, and tautalum oxide, and can be deposited by vacuum evaporation or by application and densification of sol-gels. The top of the coating of the lens material 130 is irregularly formed at this stage, as depicted in FIG. 5D. Referring now to FIG. 5E, the lens material 130 25 is then planarized optically flat to form optically flat lens surfaces 130a, preferably by chemical mechanical polishing, to the extent that the lens material 130 is removed from the optically flat surface 100a of the dielectric layer 100 in regions where there were no depressions 120a. Because the 30 depressions 120a of FIG. 5C are substantially contiguous, the remaining portions of the original optically flat surface 100a can be removed, either by isotropic etching or by chemical mechanical polishing to a slight extent, to form an optically flat repolished surface 100b of the dielectric layer 35 100 in its place. The optically flat lens surfaces 130a of the

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If anything, this portion of Hawkins supports Applicant's position, however. Simply, it was known to use mechanical polishing to produce flat, planarized surfacesin fact, this is the classic application for CMP (chemical-mechanical-polishing) machines used throughout the semiconductor industry. However, was not obvious from the references to use mechanical polishing to produce optically curved surfaces, as claimed.

For this reason, Applicant-Appellant believes that the claims are patentable.

Should any questions arise, please contact the undersigned.

Respectfully submitted,

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Date: March 9, 2006